

## DIGITAL AND ANALOG CATV/ VHF/ UHF OFF-AIR SIGNAL LEVEL METER MODULE



### Tuner Module for use with XR-3 Modular Test Instrument base unit

#### GENERAL FEATURES

- Works with the XR-3 Modular Test Instrument base unit
- Friendly user interface
- Tune by frequency or tune by channel number
- Field replaceable type F-female barrel connector
- Fast system boot-up time in less than 5 seconds
- Compatible with digital and analog signals
- Store measurements for Proof-of-Performance
- Programmable Pass/Fail limit scan for all channels
- Quick scan of all channels
- Easily create new custom channel plans or use standard base plans
- Spectrum Screen (frequency on x-axis, amplitude on y-axis)
- Constellation Screen (I and Q demodulator values)

#### VHF / UHF OFF-AIR FEATURES

- Supplies Pre-Amp / LNA power
- Simultaneously displays signal level and quality of multiple channels
- Displays measurements for analog and digital signals
- High signal sensitivity assures Off-Air antenna alignment optimization
- Manually tunes to custom channels
- Audible tone for signal lock and peak

#### CATV FEATURES

- Compatible with analog and digital CATV signals
- Frequency range from 5 MHz to 1 GHz
- Tilt measurement

#### MMDS FEATURES

- Powers frequency block down-converters

#### MEASUREMENTS

- Digital and Analog Signal Level (dBm, dBmV, or dBμV) with present and peak bar graph
- Analog Signal Quality (C/N)
- Digital Signal Quality (MER & BER)
- Locks on 8VSB (ATSC A/53) UHF digital Off-Air signals
- Locks on 64QAM and 256QAM (ITU-T J.83, Annex B) CATV signals
- Tilt
- Analog Video and Audio Carrier Measurements (NTSC, PAL, SECAM)
- Current draw of off-air antenna pre-amp / LNA

#### SPECIFICATIONS

- Frequency Range.....5-1000 MHz
  - Tuning Resolution.....Standard channel spacing or 125 kHz increments
  - Signal Level Range.....-40 to +60 dBmV
  - RF Level Accuracy.....+/- 1.5 dB typical
  - Compatible Analog Signal Formats.....NTSC, PAL, SECAM
  - Compatible Digital Signal Lock Formats.....8VSB (ATSC A/53)  
64QAM, 256QAM (ITU-T J.83, Annex B)
  - Nominal Impedance.....75 Ohm
  - LNA/Pre-Amp Power.....13,18 VDC
  - RF Connector .....Type F-female barrel, field replaceable
  - Warranty.....12 month limited
- Specifications subject to change without notice.*

#### STANDARD ACCESSORIES

- Quick Start Guide

